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Steve S.W. Liao, Perry H. Wang, Hong Wang, Gerolf Hoflehner, Daniel Lavery, John P. Shen

June 2002 PLDI '02: Proceedings of the ACM SIGPLAN 2002 Conference on Programming language design and implementation

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Recently, a number of thread-based prefetching techniques have been proposed. These techniques aim at improving the latency of single-threaded applications by leveraging multithreading resources to perform memory prefetching via speculative prefetch ...

Keywords: chaining speculative precomputation, delay minimization, dependence reduction, long-range thread-based prefetching, loop rotation, pointer, post-pass, prediction, scheduling, slack, slicing, speculation, triggering

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